TCU 600V LSZH RHH/RHW-2/RW90 SOLONONplus™

SOLONONplus™ 600 Volt Single Conductor Tinned Copper Cross Linked Polyolefin Low Smoke Zero Halogen (XLPO LSZH) Insulation Type RHH/RHW-2/RW90

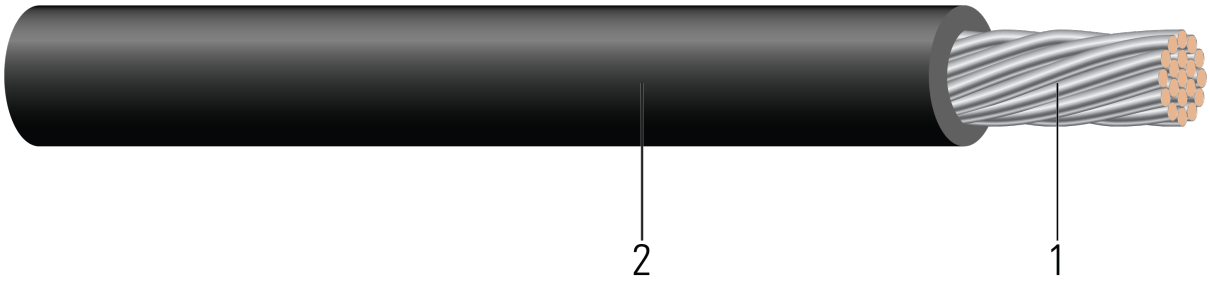

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid tinned copper per ASTM B33 or Class B compressed stranded tinned copper per ASTM B3 and B33
2. **Insulation:** Black or green SOLONONplus™ Cross Linked Polyolefin Low Smoke Zero Halogen (XLPO LSZH) Type RHH/RHW-2/RW90

APPLICATIONS AND FEATURES:

Southwire's 600 Volt SOLONONplus™ Type RHH/RHW-2/RW90 cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, and as otherwise permitted by the NEC® for Type RHH/RHW-2 or the CE Code for Type RW90. These cables are ideal for use in establishments where low smoke and low acid emissions are desired for public safety and health and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions.

1. NEC compliant
2. The halogen content is less than 0.2% and Acid gas less than 2.0%
3. 70,000 BTU/Hr. Vertical Flame Test
4. UL listed for CT use on 1/0 AWG and larger
5. UL listed FT4 and ST-1 (limited smoke)
6. -40°C Cold impact and cold bend
7. Gasoline and Oil Resistant GRI and GRII
8. UV/Sunlight resistant

SPECIFICATIONS:

- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ASTM B170 Oxygen Free Electrolytic Copper (available upon request)
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)
- UL 2885 Acid Gas, Acidity and conductivity of combusted materials and assessment of halogens
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

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- ICEA T-33-655/MIL-C-24643 Low Smoke Halogen Free (LSHF) Polymeric Jackets
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- RoHS-2 (European Directive 2011/65/EU)
- ISO 9001 Quality management
- ISO 14001 Environmental management systems standard
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems
- NFPA 502 Standard for Road Tunnels, Bridges, and Other Limited Access Highways (non-emergency circuits only)

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE SOLONONplus™ E30117 (UL) XX AWG (X.XXmm2) TCU LSZH XLPO TYPE RHH OR RHW-2 -40°C FT4 ST1 SR PRI PRII GRI GRII 600V --- (CSA) LL90458 TYPE RW90 600V -40°C FT4 ST1 TC-ER SR PRI PRII GRI GRII

Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Strand Class	Strand Count	Cond. Cmil	Cond. Number	Diameter Over Conductor	Insul. Thickness	Jacket Color	Approx. OD	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 75°C	Max Pull Tension
	AWG/ kcmil		No. of Strands	cmil	No.	inch	mil		inch	lb/1000ft	Ω/1000ft	Ω/1000ft	lb
459652	4	B	7	41740	1	0.225	60	BK	0.351	167	0.258	0.310	333

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

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Table 2 – Colors

Cond. Size	Stranding	Color	
AWG or kcmil	num	Black	Green
14	1 (solid)	458512	459638
14	7		
12	1 (solid)	459647	459637
12	7		
10	1 (solid)	459646	459636
10	7		
8	7	459654	459644
6	7	459653	459643
4	7	459652	459641
3	7	459650	459640
2	7	459648	459639
1	19	459645	459635
1/0	19		
2/0	19		
3/0	19		
4/0	19		459642
250	37	459649	
350	37	459651	
500	37		
600	61		
750	61		
1000	61		

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